ET9000 User Manual

This user Manual is intended to help you make the fullest use of the extensive range of functions offered by ET9000. We have tried to make these instructions as easy as possible to understand, and to keep them as concise as possible.

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(A) Safety Instructions

ET9000 has been designed and manufactured in compliance with EU consumer safety requirements (CE).

Please read the following safety precautions carefully !

1. Connecting Power

• This product operates only in the range of AC 95V~250V and 50Hz/60Hz. Please check first your power supply to see if it fits this range.

• Please be noted that you need to disconnect from the mains before you start any maintenance or installation procedures.

• Make sure that the power cord is placed in a position where it is easy to unplug it from the mains in an emergency.

2. Overloading

• Do not overload a wall outlet, extension cord or adapter as this may cause electrical fire or shock.

3. Liquid

• This product is not water-proof and should not be exposed to dripping, splashing, or any type of liquid.

• No objects filled with liquid such as base shall be placed on the product.

• Please do not clean the product with wet cloth, which may cause a short circuit.

• No wet objects should be placed near the product.

4. Ventilation

• The heat generated in this unit is adequately dissipated. However, the unit should never be installed in a cupboard or on shelves with inadequate ventilation. Never cover the cooling slots on the unit (e.g. with other equipment, magazines, tablecloths or curtains)!

• Do not place any objects on top of the unit and maintain a clearance of at least 10 cm above the unit, so that the heat generated can be dissipated with no obstructions.

5. Connecting the Satellite Cable

• Disconnect the power of the product before you connect the satellite cable to the product.

Otherwise, it may cause damage to the LNB.

6. Grounding

• The LNB must be earthed to the system earth for the satellite dish.

7. Location

• Place the product indoor.

• Do not expose the product to rain, sun or lightening.

• Do not place the product near any heat appliances as a radiator.

• Ensure that there is more than 10 cm distance from any electrical devices & wall.

8. Lightening, Storm or Not In Use

• Unplug the product and disconnect the antenna cable during a thunderstorm or lightening, especially when left unattended and unused for a long period of time. This will prevent possible damages from power surges or lightening.

9. Replacement of Parts

• Unauthorized part replacements, especially by one who is not a qualified technician may result in damage to the product.

• Ensure that when part replacements are necessary qualified technicians perform the task using the components specified by the manufacturer.

10. Hard Disk Drive

• Do not move the product or turn the power off suddenly while the Hard Disk Drive (HDD) is still running. This may result in damage to the HDD and thus the system.

• The company shall not be liable for any corruption of data on the HDD caused by careless use or misuse of users.

11. Battery

• There is danger of explosion if batteries are incorrectly replaced.

• Replace batteries only with the same or equivalent type.

Disposal Instructions

Electronic equipment is not domestic waste - in accordance with directive 2002/96/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL dated 27th January 2003 concerning used electrical and electronic appliances, it must be disposed of properly.

At the end of its service life, take this unit for disposal to an appropriate official collection point.

Disposal Instructions

Do not throw spent batteries into your domestic waste; take them to a collection point for used batteries!

(B) Packaginng Contents

Please check all package contents before usinng your product.

• ET9000

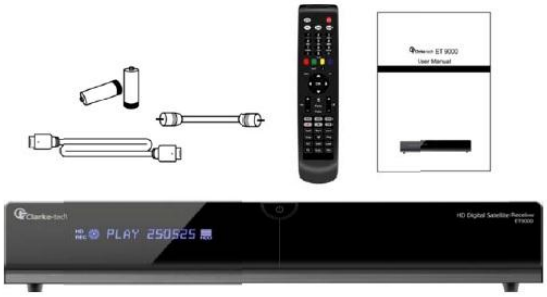
• Remote Control

• Batteries

• HDMI cable

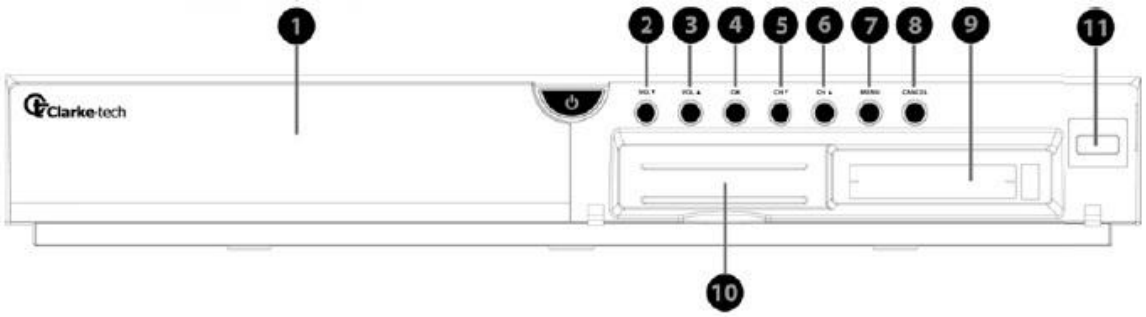
• Loop-through cable

• User Manual



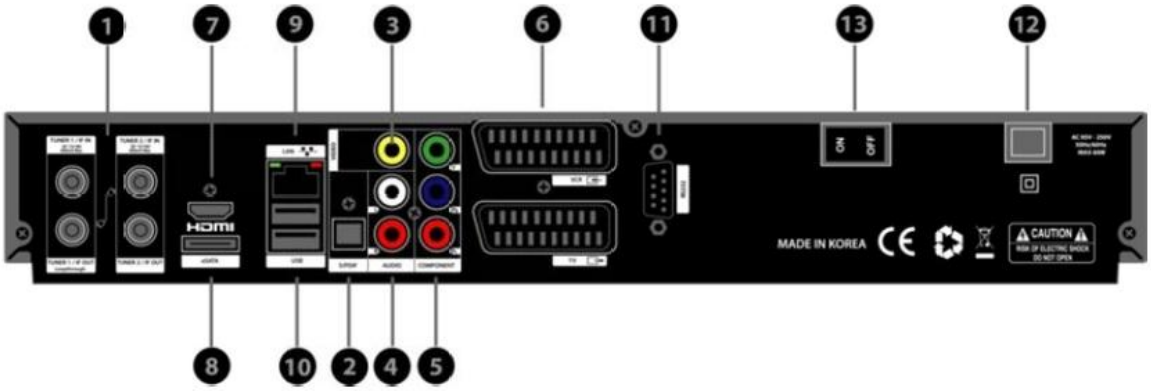
(C) Product Descriptions

Front Panel



(1) Display : Displays the current menu information. 16 character dot matrix VFD
(2) Volume down : down on the current menu list
(3) Volume up : up on the current menu list
(4) OK
(5) Channel down
(6) Channel up
(7) Menu
(8) Cancel
(9) 2x Common Interface (CAM) slots
(10) 2x Smartcard reader slot
(11) USB port 2.0 Connect to the USB memory stick or external HDD.

Rear Panel



(1) LNB : input LNB1/LNB2 and LNB1 Loop Through / LNB2 Loop Through
(2) S/P DIF : optical digital audio cable
(3) Video output : Connects to TV using RCA CINCH cable
(4) Audio output : Connects to TV using RCA CINCH cable
(5) Component (YPbPr) : RCA Cinch Connects to TV using a component cable
(6) SCART : 2x SCART connectors are provided for TV and/or VCR using SCART cables.
(7) HDMI : Connects to TV or other A/V device using a HDMI cable
(8) e-SATA : Connects the external HDD using e-SATA cable.
(9) Ethernet : Connection between network and receiver
(10) USB ports : Connects the USB memory stick or external HDD or other USB device
(11) RS232 : RS2322 data port
(12) Power
(13) Switch : Main Power on/off.

(D) Conditional Access

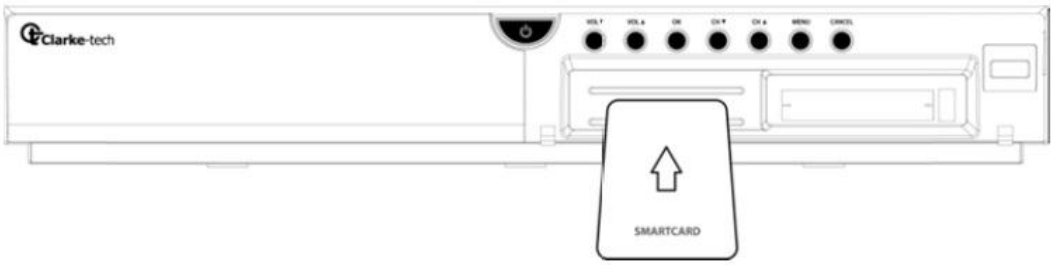
Amongst the channels that are scanned via the receiver, some channels can be properly tuned in only with the coresponding Smartcard and/or CAM (Conditional Access Module). The ET9000 provides two Smartcard Reader slots and two Common Interfaces slots and users need to purchase those Smartcards and CAMs that are required for viewing such subscription based services.

Insertion of Smartcard

1. Open the front flap on the front right side.

2. Insert Smartcard

3. Make sure that the Smartcard remain inserted while viewing.



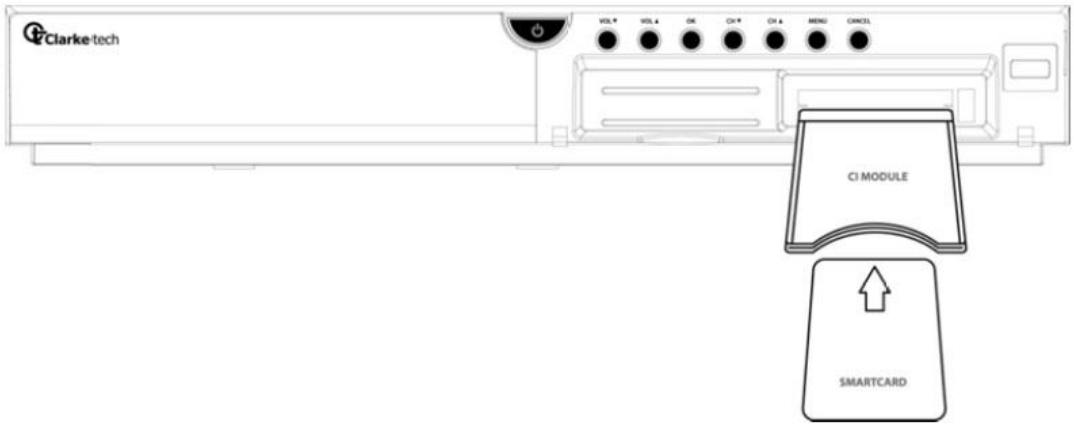
✧ Smartcard

Common Interface Module

1. Insert a Smartcard into the CAM (CI module)) as in the below picture.

2. Once the Smartcard inserted into the CAM, insert the CAM into the CI slot.

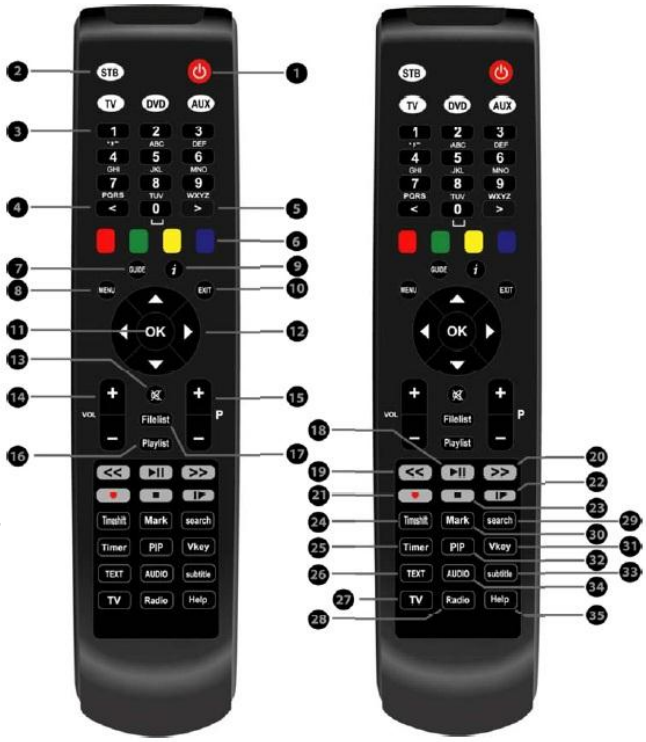
3. Make sure that the CAM remain inserted while viewing.



✧ CI-Module

✧ Smart Card

(E) Remote Control



(1) Power : To switch the receiver in and out of stand-by mode.

(2) STB, TV, DVD, AUX:
STB: To switch the remote control to receiver mode.

TV: To switch the remote control to Television mode.

DVD: To switch the remote control to DVD mode to operate your DVD player.

AUX: To switch the remote control to operate your audio system.

(3) Numeric Keys: Enters a service number for service change or to specify values for menu options.

(4) <: Navigates left on the menu options.

(5) >: Navigates right on the menu options.

(6) Color Keys : Each key iss assigned a specific function that may be different in each menu

- Red - mainly used for REC, Cancel, etc.
- Green - mainly used for OK
- Yellow
- Blue

(7) GUIDE: Displays the Electronic Program Guide (EPG) information if provided

(8) MENU: Displays the main menu.

(9) i: Displays the service information box. It is also used to display more information about a program

(10) EXIT: Exits the current menu option into the live mode, or switch one step back of the menu.

(11) OK: Confirms the selected menu option.

(12) Navigation Keys: Navigates up/down and left/right on the menu options.
Up/down keys are used to call up the channel list.

(13) Mute key: Mutes the audio.
NOTE : When Teletext is activated, key is also used when toggling between the Teletext page and the live mode.

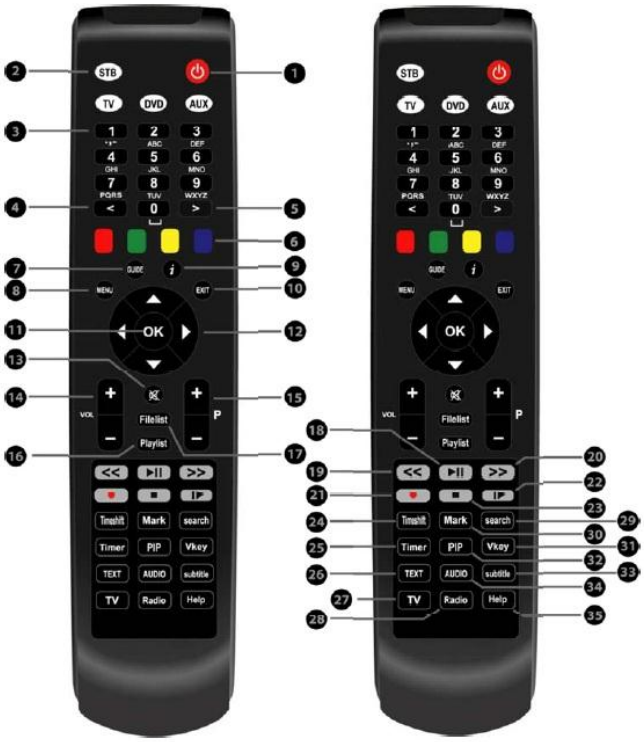
(14) VOL +/-: Adjusts the audio volume.

(15) P +/-: Navigates through the scanned channel list

(16) Playlist: Displays channel list during viewing mode

(17) Filelist: Displays the list of recordings stored on the internal HDD

(18) : Play and Pause



(19) << : Fast Rewind
Fast rewinds at up to 128 times faster than the normal speed (x2 / 4 / 8 / 16 / 32 / 64 / 128)

(20) >>: Fast Forward
Fast forward at up to 128 times faster than the normal speed (x2 / 4 / 8 / 16 / 32 / 64 / 128)

(21) Recording : Displays the recording g menu

(22) I.: Used to start slow motion play back.
Subsequent presses change the playback speed.

(23) Stop: Stops playing of a recording and goes to the live mode.

(24) Timeshift: Used to start timeshift function

(25) Timer: Sets sleep time

(26) TEXT: Displays the teletext information of the current channel , if the channel provides teletext data

(27) TV: Displays the TV Channel list

(28) Radio: Displays the Radio channel list

(29) Search: Used to start channel search.

(30) Mark: Used to jump too next bookmark position

(31) Vkey: Changes video resolution

(32) PIP: Used to picture-in-picture mode.

(33) Subtitle: Displays the subtitle of the current channel if the channel provides subtitle

(34) AUDIO: Displays the audio track option to choose (e.g. ACS, Stereo)

(35) Help: Displays major important operation methods of ET9000. This provides users with a quick guide of using ET9000.

(F) Main Features

- 400 MHz MIPS Processor
- Linux Operating System
- Media Player
- Downloadable Plug-ins supported
- 2 x Smartcard Readers
- 2 x Common Interface
- MPEG2 / H.264 Hardware Decoding
- DVB-S2 Twin Tuners (Loop trough)
- 12 character Dot Matrix VFD
- 128MB NAND Flash / 512MB DDR Memory
- External SATA supported
- 10/100MB Ethernet network interface
- 3 x USB 2.0
- RS232
- HDMI
- Component YPbPr
- Composite Video (RGB)
- 2 x SCART
- S/PDIF for digital bit stream out (optical)
- EPG supported
- Automatic & Manual Service Scan supported
- Multiple LNB control (DiSEqC) supported
- Skin change supported
- Stable SMPS integrated

(G) Technical Data

ET9000 Technical Specifications

Front Panel	Display	12-digit Dot Matrix VFD display with status icons displaying channel names and program information
	Smart card slot	2x internal cardreader
	Common Interface	2x Slot CI standard
	USB 2.0	1x USB port 2.0 max. 500mA
	Keys	Power, Channel up/down, Volume up/down, Cancel, OK
Rear Panel	Power Switch	1x ON/OFF
	Sat-IF input/output	2x F-type socket (with Loop Through)
	Scart socket	Connector TV/VCR
	Component socket	RCA Cinch 1xY 1xPb 1xPr
	Video output(analogue)	RCA Cinch 1x Video
	Video/Audio output (digital)	HDMI Video/audio output (digital)
	Audio output (analogue)	RCA Cinch stereo 1x left 1x right
	Audio output (digital)	S/P DIF fibre optical
	USB 2.0	3x USB port 2.0 max. 500mA
	eSATA	1x
	Ethernet network	1x RJ45
	Serial port	RS2323
Power	Mains voltage	95-250V/50-60 Hz
	Power consumption	(Max. 65W / typ. operation 35W / stand-by 1 W

RF	RF range	950-2.150 MHz
	Modulation, FEC, de-multiplexer	DVB-S/DVB-S2 standard
	S/N	> 65 dB
	Input data rate	2-45 MSymb/s
Video	Video resolution	CCIR 601 (720 x 576 lines), 576p, 720p, 1080i
	Video decoding	MPEG-2, MPEG-4 compatible
Audio	Audio decoding	AC 3, MPEG-4 (AAC-HE), MPEG-1, Layer 1, 2 and 3
	Audio sampling rate	32/4.1/48 kHz
LNB	LNB supply(horiz./vert.)	14/18; Max. 400 V/mA
	Control signal	22kHz ; ToneBurst ; DiSEqCTM1.0/1.1/1.2
General	Dimensions (W x H x D)	380 x 60 x 240 mm
	Weight (without HDD)	App. 3.0kg

NOTE: i means Remote control operation order.

I. Installation of ET 9000

This chapter will guide you through the whole installation process of ET9000. Please read each section carefully to make sure that the system runs properly.

1. Connecting Satellite Cables

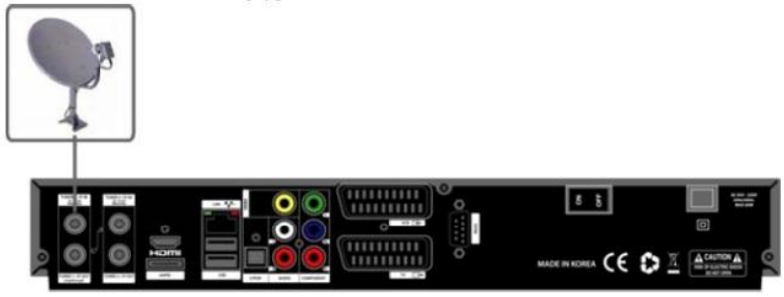
ET9000 has 2 satellite tuners, and one of the first steps is to connect the satellite cable(s) to the tuner(s) in order to gain optimal signal quality. You can either choose one of the following connection methods depending on the equipment!

A. Two Separate Satellite Cables

In case you have two separate satellite cables providing different broadcast signals, you can configure LNB 1 Input and LNB 2 Input independently.

B. Internal Loop through

In case of only 1 satellite cable, connect the cable to LNB 1 Input.

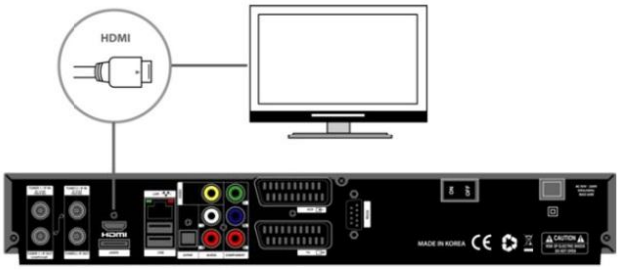


2. Connecting the TV (and VCR)

ET 90000 provides a variety of audio/video connection methods.

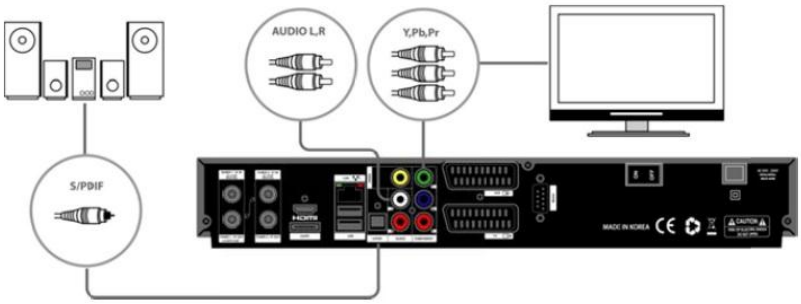
A. Connnecting TV via HDMI cable

For the sake of the best picture quality, especially for digital TV, HDMI connection is recommended. Most HDTVs have HDMI connectors to ensure the highest picture quality. In the rear panel of ET 9000 the HDMI connector is available for this purpose. Connect your TV to ET 90000 using a HDMI cable as follows.



B. Connecting TV via Commponent Cable

The secondly recommend TV connection for high quality TV is via component cable (YPbPr). However unlike the HDMI connection which delivers audio and video signal at the same time. Y Pb Pr connection requires additional audio connection either via RCA cable (Stereo L/R) or S/PDIF as follows.

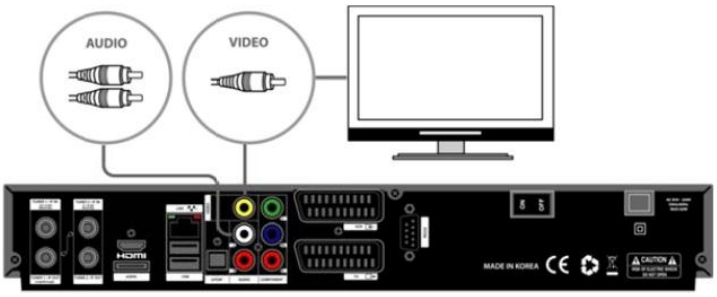


NOTE :

A/V receiver with S/PDIF digital audio input, this connection is recommended to enjoy the best audio quality, especially for the Dolby Digital sound.

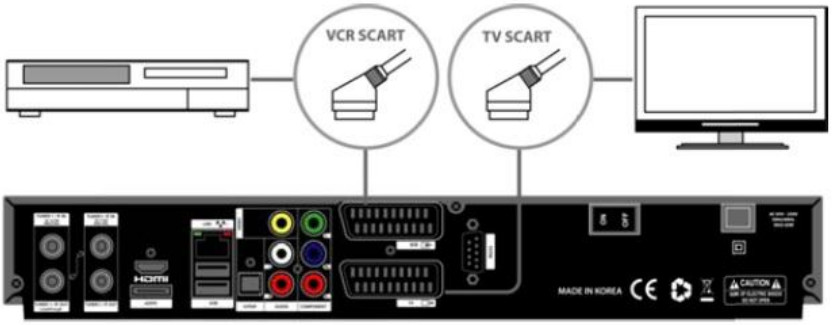
C. Connnecting TV via RCA (Video) Cable

ET 90000 provides Composite video connection as well. Standard composite cable has 3 RCA Cinch connectors at the both end; 1x Video (Yellow) and 2x Audio Left and Right (White / Red). Connect your TV to ET 9000 as follows.



D. Connecting TV(and VCR) via SCART cables

In case your TV is analogue TV, SCART cable is the most popular method. Connect your TV to ET 9000 uusing SCART cable as follows.



3. Connecting Power

Connect the power cord to a power outlet. Turn on the main power switch (rear panel).

NOTE : AC input condition

• Nominal Voltage Range: 100 - 240 VAC

• Maxi mum Voltage Range: 90 - 264 VAC

• Nominal Frequency: 50 / 60 Hz

• Maxi mum Frequency Range: 47 -63 Hz

NOTE: i means Remote control operation order.

4. Power ON/OFF

[i: Press Power key / Press MENU > Select Standbby/Reset]

There are several ways to turn your ET9000 ON or OFF

• Complete Power Shutdown

There is a Power Switch in the rear panel and once it is ON, you do not need to turn it on or off each time. It takes a longer time to start (booting) the system if the receiver is turned off by this switch.

• Standby Mode

POWER key is normally used to turn the power of the receiver on or off. If press POWER, it instantly switches the ET90000 off or on. In this mode, the system is not completely shut down and thus it takes a shorter time to turn it on and off.

• Deep Standby Mode [i : Menu > Standby/Restart >> Deep Stand by]

Deep Standby is used to reduce the standby power consumption. ET 9000 is designed to be energy efficient and to guarantee the power consumption to be under 1W in the deep standby mode.

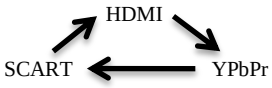
II. First Time Installation (using Wizard)

When turn on ET9000 for the first time after purchase, an installation wizard will begin step by step.

NOTE : OK key is used for confirmation and turns to the next step. Pressing EXIT key to return to the previous page.

After factory reset the receiver start with “Video Wizard”. Here select your connection. HDMI,SCART or YPbPr.

Note: the connector detection rotates between HDMI - SCART – YPbPr. If Scart is connected , so must wait before TV screen displayed the video wizard menu ! Probed all 10 seconds !!



In the next step choose your Video mode !

SCART or HDMI

Step 1. Language Selection

The ET9000 provides various languages and here you can choose the main language for your ET 9000 . Use UP/DOWN key to scroll up and down to find the language which needed.

Step 2. Configuring Satellite Connecction

From now on you need to configure the satellite connection. Are 2 options:

• Use installation wizard to setup basic featuress

• Exit wizard

You are strongly recommmended to use wizard as it is designed to guide you through the configuration process.

StartWizard
1:36
Saturday 1 January 2000
Welcome.
This start wizard will guide you through the basic setup of your ET9000.
Press the OK button on your remote control to move to the next step.
English
StartWizard
1:37
Saturday 1 January 2000
Use the up/down keys on your remote control to select an option. After that, press OK.
English
Use wizard to set up basic features
Exit wizard

A. Configuring Tuner A

Using LEFT/RIGHT button, you can choose one of the following Configuration Modes:

• Nothing connected

• Simple

• Loop through to: mode to make the LNB1 be internally connected to the LNB2 in.

• Equal to: mode to use the same configuration as that of Tuner B.

• Advanced: for an advanced user configuration.

If you choose Simple configuration mode, the following picture will appear.

The five modes are available for the satellite cable connection between LNB and the ET 90000 as below :

• Single

This option is used to receive a single satellite with a single LNB. The cable from LNB is directly connected to the ET 9000.

• Toneburst A/B

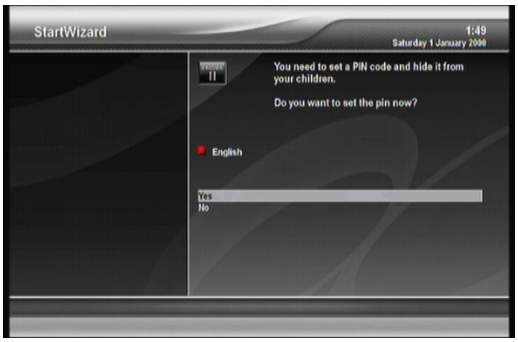
This option is used if you want to receive 2 satellites using a Toneburst switch.

• DiSEqC A/B

This option allows to configure two satellites in Port A and Port B.

• DiSEqC A/B/C/D

This option allows you to configure four satellites in Port A, Port B, Port C and Port D.



• Positioner

This option is used when you have a motorized satellite antenna.

B. Configuring Tuner B

This step is for the configuration of Tuner B (LNB 2 Input), and the process is same as that of Tuner A. For further information please refer to the above “Configuring Tuner A” section.

Step 3. Installing Default Satellite List

Here you will be asked following questions :-

Do you want to install default sat list? ((YES/NO)

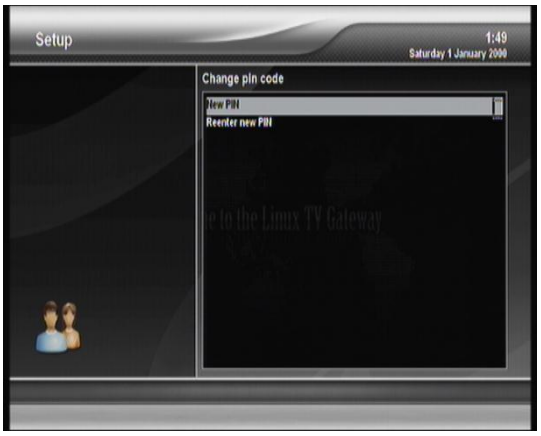
And by pressing OK, then following message will appear.

Please chhoose the default service lists you want to install (e.g. Astra, Hotbird etc))

Step 4. Parental Control Option

Here you can choose whether to enable the parental control option. If you press OK, you will be asked to enter PIN

code number



III. Basic Operations

1. Switching Channel

[i: Press (▲/▼CHANNNEL +/- key / Press ◄ / ► to move to the next channels]

The ET 9000 offers various channel zapping methods. You can switch the current channel by pressing

• UP/DOWN key

If you press UP or DOWN key, the Channel Selection menu appears.

You can move up and down to select the channel that you want to tune into

• LEFT/RIGHT key

If you press LEFT or RIGGHT key, the previous or subsequent channel of the current channel is tuned in.

• CHANNEL +/- key

If you press CHANNEL + or - key, this will call up the Channel Selection menu.

• Channel Number

Enter a channel number, and it will instantly tune into the channel.

NOTE : If channel change is not done, it is probably because the selected channel is encryptedd and you do not have a proper smartcard.

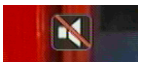
2. Volume Control

[i: Press VOLUME +/- key]

You can adjust the audio volume by pressing VOLUME +/- key. You can also mute or unmute the audio

temporarily by pressing MUTE key

Volume bar



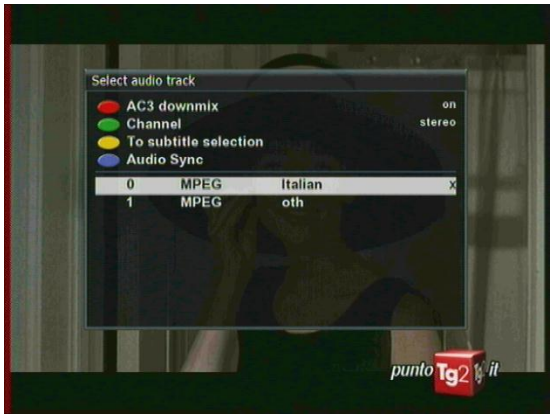
*Mute icon is on when the audio is muted.

3. Selecting Audio Track

[i: Press AUDIO key]

You can check what audio tracks are available to choose by pressing AUDIO key.

Seite 24



By using UP/DOWN key and Color key, you can select a different audio language or Stereo sound.

NOTE : Available options on this menu will differ depending on the service.

4. Subtitle

[i: Press SUBTITLE key or Press MENU > Subtitle

You can view the subtitle of the current program if the program provides the subtitle. Press SUBBT key, Subtitle selection menu appears as below.

Available subtitles, if any, will display. By using UP/DOWN navigate around the list to select a subtitle that you want to play and press OK to activate it.

5. Teletext

[i: Press TEXT key]

You can call up Teletext information by pressing TEXT key. It will take some time to load all the information.

100 BBC WORLD 100 17 Dec 10:45/28
BBC WORLD NEWS
BBC News 101
BBC World TV Menu 200
BBC World Today 201
The Week Ahead 210
BBC Details 290
Reception Info 291
›800 ›110 ›120 ›200

You can navigate through the Teletext page by using UP/DOWN key to select a text page. Also, just simply enter the page number that you want to read.

• MUTE key

Once you activated Teletext, you can toggle between the live mode and the Teletext page by pressing

MUTE ( ) key instantlly. In this case, loading of the Teletext page takes place instantly.

• VOLUME +

If you want to enlarge the page, press VOLUME + key.

• VOLUME -

Seite 25

If you want to reduce the page size, press VOLUME - key.

6. Program Information (Infobar)

[i: Press OK key]

Whenever you change the channel, infobar is always displayed for 5 seconds (deefault setting). I Infobar is

designed to provide youu comprehensive information of the channel that you are currently watchiing.

• Press OK to call up infobar.

1 A : The tuner being uused for the cu rrent channel.

2 SNR ((Signal to Noisee Ratio) : Signaal Level

3 AGC ((Automatic Gainn Control) : Signal Strength

4 The name of the currrent channel

5 Remaaining time of thhe current program

6 The cuurent programm

7 The next program REC :

(

Highlighted in red when recording is in proggress.

9 CAS ( ) : Encryptedd program

10 Text : Highlighted when the programm provides Teletext.

11 16:9 : Screen ratio

12 RED : to activate recoording

13 GREEN : to call up Subservices, if aavailable

14 YELLOW : to activatee Timeshift

15 Extenssions : to call up a menu for Sleep Timer and Graphical Multi EPG

7. Channel List (Channel Selection MMenu)

[i: Press ./., CHANNNEL+/- key]

If press UUP/DOWN key, this will activate Channel Selection Menu as below.

Seite 26

Four types of the channel lists are available to help you to manage your channel selection.

• RED dissplays the list of all scanned channels.

• GREEN displays the list of all satellites scanned.

Per each satellite, channnels are aranged accordingtto Services, Provider, and New.

Seite 27

• YELLOW displays the list of providers.

• BLUE diisplays the list of your favorite channels.

In order foor you to add certain channels to this Favourites list,

1 Call up the Channel Selection list by Pressing UPP or DOWN keyy.

2 Go to the list of All chhannel by presssing RED.

3 Selectt the channel thhat you want too add to the Faavourites list.

4 Press MENU key on the selected cchannel and thee following me nu appears.

Seite 28

5 Choosse “add servicee to favourites” and press OKK.

6 Go to the Favouritess list by pressinng BLUE to connfirm that the s elected channeel is correctly inncluded

in the list.

8. Elecctronic Proggram Guide (Event VView)

[i: Press EPG key]

The Electtronic Programm Guide (EPG)) displays the pprogram informmation of each channel, if proovided, in timee and date

order. Youu can view the detailed prograam informationn by pressing EEPG key and thhe following

menu, Evventview appeaars.

Detailed information of tthe current chaannel will be dissplayed on EP G. On this mennu, three optionns are providedd.

• RED (Si imilar)

This optioon helps you fi nd similar proggrams. If there e are one or moore programs tthat are similarr to the current program,

EPG Seleection window ddisplays them as below.

• GREEN (Add Timer)

If you pre ss GREEN keyy, Timer entry mmenu appears as below. Thiss option is use d to set up a n new timer for reecording or

zapping.

- Name

Displays tthe name of thee selected proggram.

-Descripttion

Displays aa short descripption of the seleected program..

- Timer Tyype

• Select ZZap for channell tuning reservaation.

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• Select Record for recording reservation.

- Repeat Type

• Select Once for one time of zapping or recording reservation.

• Select Repeated for repeated zapping or recording reservation.

• Repeats - This option is given only when you selected "Repeated" in the Repeat Type.

You can reserve zapping or recording per Daily / Weekly / Mon-Fri / User-defined.

- Date

Displays the current date. This entry is on when you selected Once, in the Repeat Type. - Start Time

You can set the time to begin recording or zapping.

- End Time

You can set the time to end recording or zapping

- Channel

This entry allows you to change the channel. Press LEFT/RIGHT key to call up Channel Selection menu. You can select

a different channel from this list using this option. To return to Timer entry menu,

press EXIT.

• YELLOW (Single EPG)

Press YELLOW while Eventview menu is on, to call up the program event schedules of the selected channel.

In this state, you can sort the list according to A-Z order or Time by pressing YELLOW.

NOTE : To add a timer for recording or zapping, press GREEN.

• BLUE (Multi EPG)

Press BLUE to activate EPG Selection Multi EPG window.

-You can move the previous or next program within the same channel by using YELLOW (Previous)/BLUE

(Next).

NOTE : Not all channels provide EPG information and thus in case of no EPG data, nothing will be displayed except for

the channel name.

-You can switch to another channel by using UP/DOWN key.

- RED key is used to instantly tune into the selected channel.

- GREEN key is used to reserve recording or zapping of the selected program.

9. Timeshift

[i: Press YELLOW key]

For your information, Timeshift is an instant recording of the current program that you are watching. Press YELLOW or

PAUSE key, it will instantly pause the audio and video of the program, and a small window displaying elapsing time

information will appear on the left upper side of the screen as below.

30

*elapsing time informatioon

In this staate, Timeshiftedd recording is running until yoou press eithe r PLAY or PAUUSE again. Yo u can restart

viewing off the program.

If you wannt to stop Timeeshifted recordi ng and to returrn to the live mmode, press STOP key.

You will b e asked of Yess or No to stop Timeshift.

NOTE : WWhat is differennt from normal recording is thhat Timeshiftedd recording is not meant to bbe stored on HHDD. If you

stop Timeeshift, you cannnot replay the TTimeshifted reccording.

10. Recording

ET 9000 is a Personaal Video Recordder with two inntegrated DVBB-S2 tuners. Yoou can record mmultiple prograams at the

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same timee. There are twwo ways to opeerate and manaage recording.

1 Instannt Recording

ee. There are twwo ways to opeerate and manaage recording.

1 Instannt Recording

[i: Press RED or REC kkey]

Press REED or REC key to start the reccording of the ccurrent programm.

Five recording options aare given.

- Add recoording (stop aftter current eve nt)

This optioon is used whe n you want to eend recording wwhen the curreent program ends.

- Add recoording (enter reecording duration)

This optioon is used whe n you want to mmanually set thhe length of reccording by enteering a certain number as below:

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- Add recoording (enter reecording end ti me)

This optioon is used whe n you want to ddefine a certainn date and timee when the reccording is to stoop.

- Add recoording (indefini tely)

This optioon is used whe n you want to kkeep recordingg running withoout a specific end time. Recorrding will continnue unless

you stop iit.

- Don’t reccord

This optioon is used to exxit from this meenu without reccording.

2 Recorrding by Timer

[i: Press MENU key > SSelect Timer]

You can mmanage recordding process ussing Timer List menu. Press MMENU and seleect Timer on th he menu.

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In this meenu, color keys are assigned ffor each differeent function.

- RED (Deelete)

This optioon is used to deelete a timer.

- GREEN (Add)

This optioon is used to addd a timer.

- YELLOWW (Disable)

This optioon is used to disable the timerr and X mark wwill appear.

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NOTE : if you want to ennable the disabbled timer, presss YELLOW aggain.

- BLUE (CCleanup)

This optioon is used to reemove those finnished timers frrom the Timer List.

NOTE : MMake sure that the HDD on yoour ET 9000 has enough frree space avai lable for recordding. If the freee space on

the HDD iis not sufficientt, recording migght stop beforee the defined eend time.

-Stop Reecording [i : Preess RED or REEC key > Selecct “Stop Recordding”]

If you wannt to stop recorrding, press REED or REC agaain while recordding is running . Select Stop RRecording.

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11. Recording Plaay

[i: Press FFile list key]

You can vview recorded ffiles on the Reccorded files meenu. Press File list to activate this menu.

Select thee file that you wwant to play. It wwill instantly reeplay the file annd display the rrecording infobbar.

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This infobbar gives you thhe following infoormation of thee recording.

1 Title oof the recordingg

2 Total dduration of reccording

3 Remaaining time

4 Progreessive bar

5 Elapseed time

12. Maanaging Reecording Fiiles

[i: Press File list key > PPress MENU key]

If you wannt to delete a reecording file, ppress MENU keey while Recordded file menu is on.

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Select “Deelete” and conffirm OK to deleete.

Other than “delete”, in thhis menu, you have options inn sorting and li sting of the reccording files.

- Sort by ddate

- List stylee default

- List stylee compact withh description

- List stylee compact

- List stylee single line

-Hide exttended descripption.

13. Meedia Playerr

[i: MENUU > Media Playyer]

ET 9000 iis truly a multimmedia receiver capable of pla aying media co ntents. Using MMedia Player, yyou can enjoy

Music, Phhoto and Videoo contents storeed on the internnal HDD and/or a USB memoory stick pluggeed into ET 9000 .

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If you playy Media Playerr, the following player will apppear. yy Media Playerr, the following player will apppear.

1. Go intoo any directory oof the HDD or plugged USB.

2. Select aa file to play annd press OK

* Suppoorted formats a re mainly JPG, MP3, AVI, etc..

3. In the ssame way, you can play the reecording files s stored on the H DD.

14. Pluug-ins

[i: MENUU > Plugins]

ET 9000 is integrated wwith standard 10/100Mbps EEthernet with RRJ 45 connecttor. You are reecommended tto use this

network ccapability of ETT 9000 to fully enjoy the systtem. If your ETT 9000 ’s network connectionn is establishedd, you can

directly doownload plug-i ns from a desiggnated websitee of ET 9000 .

1 Press MENU and seelect Plugins menu to active PPlugin browser..

2 Press GREEN key too download a l ist of plug-ins aavailable.

3 Once the download is done, a list oof plug-ins will be displayed.

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4 Selectt a plug-in to doownloadtt a plug-in to doownload.

5 You caan check if the download is d one properly oon the Plugin brrowser

From this site, you can ccheck availablee plug-ins to dowwnload as beloow.

15. Sleeep Timer

[i: MENUU > Standby/ RRestart > Sleep Timer]

You can sset a specific timme when your ET 9000 goes s into Standby mmode or Deep Standby modee, using this meenu. Three

color keyss are used to sset up this sleepp timer.

1 RED

This optioon is used to ennable or disabl e Sleep Timer.

2 GREEEN

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This optioon is used to chhoose betweenn Standby mod e and Deep Sttandby modeoon is used to chhoose betweenn Standby mod e and Deep Sttandby mode.

3 YELLOOW

This optioon is used to chhoose whether to be asked off confirmation bbefore system shutdown.

IV. SSystem Configuuration

ET 9000 is a very sopphisticated devvice designed tto allow userss a variety of system settingg options as ddetailed as

possible. You can fine-tune your ET 9000 to be yourr OWN systemm to fit your tasste. This chapteer will guide yoou through

the entire menu of systeem configuratioon.

Prior to S ystem Configu ration, please take a notice oon the menu st ructure of ET 99000 first.

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1. Main Menu

[i: Press MENU]

The main menu of ET 9000 consists of the following sub menus.

1 Subtitles

Displays Subtitle selection menu of the current program.

2 Media player

Activate Media player of ET 9000 . For more information, please refer to the page 38

3 VCR scart

Switches to VCR scart connection.

NOTE : If your ET 9000 is not connected to VCR scart, the screen will go black. In this state, just press EXIT to return to

the previous state.

4 Information

Has two sub menus for Service / About. Service menu provides the detailed information of the current

channel. About menu provides the detailed information of the H/W and S/W system of your ET 9000 . For more

information, please refer to the 2-6. Checking HW/ & S/W information.

5 Plugins

Activates Plugin browser of ET 9000 . Using this browser, you can log onto the designated website and you can

download a variety of new plug-ins. For more information, please refer to the page 39.

6 Setup

Provides all of the system settings. For more information, please refer to the page 44~65.

7 Standby / Restart

Provides options for power on/off and sleep timer. For more information, please refer to the page 14

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2. Systtem Setup

[i: Press MENU> Selectt Setup]

The Setupp menu consis ts of the followwing sub-menuss.

1 Servicce Searching

2 Systemm

3 Commmon Interface

4 Parental Control

5 Default settings

6 Factorry reset

2--1. Service Seaarching --1. Service Seaarching

[i: Press MENU> Setupp > Service Seaarching]

Here you set up the tuneers of your ET 9000 and run cchannel scannning automaticaally or manuallyy.

A. Tuner CConfiguration

[i: MENUU > Setup > Seervice Searching > Tuner Connfiguration]

If you run the First Time Installation proocess (refer to the II. First Timme Installation)), the Tuner A aand B are alreaady

configuredd. You can cheeck the informaation of each Tuuner and whichh satellites are scanned by eaach Tuner

as followss.

B. Loading Default Servvice Lists

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[i: MENUU > Setup > Seervice Searchin g > Default Seervice List]

In case thhere are servic e lists availablee for certain saatellites, for exaample, Astra o r Hotbird, you can install the lists in the

channel li st of your ET 99000 .

If default sservice lists aree not availablee, you can run tthe service scaan automatically or manually tto add TV

and radio channels to th e channel list oof your ET 90000 .

C. Automaatic Scan of Seervices

[i: MENUU > Setup > Seervice Searchin g > Automatic Scan]

The easieest way to scaan services is to use Autom matic Scan. In tthe Automatic Scan menu, tthere are two options to

choose froom as below.

• Clear Beefore Scan

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YES is ussed when you want to delete the existing c channel list befoore you start thhe automatic sscan. If you waant to keep

the existinng list, select NNO.

ssed when you want to delete the existing c channel list befoore you start thhe automatic sscan. If you waant to keep

the existinng list, select NNO.

• Scan Tuuner A (DVB-S22) (or together with Tuner B)

If Tuner AA and B are connfigured for thee same satellitee(s), only Tuneer A will appearruner A and B wwill appear,

. If not, both Tu

asking yo ou which one yoou want to sca n.

Press OKK to activate tthe automatic scan. This wwill take some minutes. As the scan procceeds, you wiill see the

progressivve bar and the newly found sservices undernneath.

D. Manuaal Scan of Servvices

[i: MENUU > Setup > Seervice Searchin g > Manual Sccan]

If you knoow well enouggh to configuree each exact s etting requiredd for manual search of servicces, you can ddo manual

scan as wwell. There are many parametter values that you need to deecide as beloww.

For DVB-S2 (High Definnition)

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For DVB-SS (Standard Deefinition)

Amongst oother things, thee below parameeters are what yyou need to de cide prior to performing manuaal

scan.

1 Tuner

You need to decide whic h tuner you wa nt to use for maanual scan.

2 Systemm

Here you have two optionns between DVVB-S (SD) and DDVB-S2 (HD).

3 Frequency

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You need to enter the exxact frequencyy of the transpoonder that you wwant to scanxxact frequencyy of the transpoonder that you wwant to scan.

4 Symbool Rate

You need to enter the exxact symbol ra te of the transpponder that youu want to scan

5 Polaritty

Here, youu have optionss for Horizonta l, Vertical, Circcular Left and Circular Right . You need to know the polaarity of the

transpondder that you waant to scan.

6 FEC (Forward Error Correction)

You need to enter the exxact FEC valuee of the transpoonder that you want to scan

7 Modullation

Here you have two optioons for QPSK ((SD) and 8PSKK (HD).

8 Netwwork Scan

Here you have two optioons for YES a nd NO. NO is used to scan tthe transpondeer (TP) based oon the data that your ET

9000 currrently has. YESS is used to sccan the TP nott just based onn the existing TTP data but alsso using new TP data, if

there is TTP data newly ttransported froom the TP. Naturally, YES op tion takes longger while it mayy results in a bbetter scan

result.

9 Clear Before Scan

YES is ussed when you want to delete the existing c channel list befoore you start thhe automatic sscan. If you waant to keep

the existinng list, select NNO.

10 Only FFree Scan

Here you have two optioons for NO andd YES. If you wwant to scan onnly Free to Air cchannels withoout any encrypttion, select

YES. Oth erwise, select NO to scan all FTA and CAS channels.

Press OKK to activate thee manual scan. This will takee some minutess. As the scan proceeds, youu will see the pprogressive

bar and thhe newly foundd services undeerneath.

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2--2. System Connfiguration --2. System Connfiguration

[i: Press MENU> Setupp > System]

Here you can find most of the necessaary settings thaat you might neeed to optimize your ET 9000 in the way youu

like it. Pleease read the foollowings careffully.

A. A/V Seettings

[i: MENUU > Setup > System > A/V Se ttings]

Here you will find optionns necessary too set up the auddio and video cconfiguration oof your ET 90000.

NOTE : RRED is for canccel and GREENN is OK. OK ke ey of RCU is noot working in th is mode.

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Amongst the parameters given in this menu, the following ones are generally what you need to decide for the audio and

video.

1 Video output

Here you need to decide which video output you want to use between your TV and ET 9000 . The available options are

as below.

• CVBS

• S-Video

• RGB

2 Mode

You need to decide which resolution to use according to the video output above and your TV amongst the following

options.

Scart

PAL

Resolution NTSC

Multi

3 AC3 Default

YES is used when you want to set Dolby Digital audio as the default audio. If the program you are watching has AC3

and Stereo, AC3 is used.

On the other hand, NO is used when you do not want to set Dolby Digital audio as the default audio. If the program you

are watching has AC3 and Stereo audio, Stereo audio is used.

4 AC3 Downmix

YES is used when you want to set the audio output to be down-mixed from AC3 to Stereo. NO is used

when you do not want to set the audio output to be down-mixed from AC3 to Stereo. If NO is on and you

are using only HDMI or SCART connection, there can be no audio sometimes, if the program that you

are watching provides AC3 only. This option is recommended when you are using S/PDIF connection.

B. Language Selection

[i: MENU > Setup > System > Language]

A variety of languages are available for the OSD of ET 9000 .

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C. Custommization

[i: MENUU > Setup > System > Custommize]

In this meenu you will findd various custoomization optioons and this meenu can be dispplayed in threee different

formats: SSimple, Intermeediate, and Exppert.

51

NOTE : RRED is for canccel and GREENN is OK. OK ke ey of RCU is noot working in th is mode.

Amongst the options givven in this menu, the followingg ones are gennerally what yo u may need to o know.

1 Recorrding always haave priority

YES optioon is used to seet the recordingg to have a prioority over any eexisting timer. If there occurs a

conflict beetween a timerr and a recordi ng in progresss, the recordingg has a priorityy over the timerr. If you set thi s option at

NO, you wwill be asked wwhether to switcch to the servicce to record or not.

2 Marginn before recordd (minutes)

If you entter a number here, for exammple, 5, the reccording will beegin 5 minutess before the deefined time. If it is “0”, it

means that the recordinng starts exacttly at the definned time. This option comesin handy, justt in case that a program

starts earlier than the orriginal schedulee.

3 Marginn after record

If you entter a number hhere, for exampple, 5, the recoording will stop 5 minutes afteer the defined time. If it is “0””, it means

that the reecording stopss exactly at thee defined time. This option coomes in handy,, just in case thhat a program ends later

than the ooriginal scheduule.

4 Show Message whe n Recording sttarts

If you set this option of YYES, a messagge saying that aa record has s tarted appearss as below.

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5 Enablee multiple bouqquets

If you set this option at YYES, it will enaable multiple boouquets.

D. Selectiing Time Zone

[i: MENUU > Setup > System > Timezoone]

You can sset your time zoone in this mennu.

Using LEFFT/RIGHT key,, you can find aa time zone thaat you want to use for your ETT 9000 . After sselecting a

time zonee, press GREE N to confirm annd save the changed setting.

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E. Hard DDisk Set Up

[i: MENUU > Setup > System > Harddissk > Harddisk ssetup]

You can sset the durationn of time after wwhich HDD is t to be put into sttandby mode.

Here, youu can choose frrom No standb y

10 or 30 sseconds

1, 2, 5,10, 20, 30 minutees

1, 2, 4 hours.

Once youu set this optionn, press GREE N key to confirrm the change..

F. Front DDisplay Setup

[i: MENUU > Setup > System > Displayy Setup]

There is aa 16 characterr dot matrix VFFD display on tthe front panel of ET 9000 . TThis display shhows various i nformation

like the cuurrent menu, chhannel, HD icoon, and so on. YYou can adjustt the brightnesss of this displayy using this meenu.

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•

Brightness

You can cchange the brigghtness of the ffront VFD display using LEFTT/RIGHT key wwhen the set is in use.

•

Standby

You can cchange the brigghtness of the ffront VFD display using LEFTT/RIGHT key wwhen the set is in standby mode.

Once youu completed thi s option, presss GREEN key tto confirm the cchange.

G. Netwo rk Setup

[i: MENUU > Setup > System > Networrk]

ET 9000 iis integrated wwith standard 100/100Mbps Ethhernet with RJ 45 connector sstandard. You aare recommended to use

this netwoork capability oof ET 9000 too fully enjoy thee system. You can set up thee network settinngs through this Network

Configuraation menu.

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In the Nettwork Configurration menu, yoou will see five sub menus ass follows:

1 Adapter settings

Through tthis menu, you can set the baasic Ethernet coonfiguration.

User Interrface

YES is ussed to activate the Ethernet. I f you set this ooption at NO, thhe Ethernet wil l not work.

Use DHC CP

YES is ussed to use DHHCP (Dynamic Host Configurration Protocol). If you set this option at YEES, it will auttomatically

detect thee correct IP adddress. NO is uused when youu want to use a certain fixedd IP address. I n this case, yoou need to

enter corrrect addresses in each field.

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2 Nameeserver settingss

This optioon is required iff you selected not to use DHCCP. You need t o enter the adddress of the Naameserver.

3 Netwoork test

When youu are not sure wwhether the neetwork configurration has beenn done correctl y or not, you c can run this test.

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4 Restart Network

This optioon is used whe n you want to rreboot the Etheernet of your EET 9000 .

H. Skin

[i: MENUU > Setup > System > Skin]

ET 9000 is a Linux bassed set top boxx and there aree a lot of Skinss available for LLinux set top boox. Using this menu, you

can use aa different Skin other than the default one.

NOTE : Itt takes some mminutes since the change off Skin requiress a complete s ystem shutdowwn. Please wait patiently

until the ssystem rebootss with a newly sselected Skin.

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2--3. Checking CCAM

[i: MENUU > Setup > Coommon Interfacce]

To be abl e to watch CAAS channels, yoou need to havve a proper CAAM and a Smaartcard. ET 90000 is integrateed with two

Common Interface slotss. If you have two CAM mo odules and keeep them insert ed in your ET T 9000, it will rreduce the

trouble of changing CAMM. Please referr to the page 8..

If you havve inserted onee or two CAMs , you can checck the information of the inserrted CAMs, throough this menuu as below:

2--4. Parental Coontrol

[i: MENUU > Setup > Paarental Control]

If you wannt to prevent ceertain channelss from being acccessed by othhers, you can do so using thiss menu.

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1 Go to Parental Contrrol menu by preessing MENU > Setup > Pareental Control. rrol menu by preessing MENU > Setup > Pareental Control.

2 Set th e parental control option at YYES using LEFTT/RIGHT key. TThe menu will change as beloow.

Protect seetup

If you set this option at YYES, you will bbe asked to entter PIN code wwhen you enter this Parental setup mennu.

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Change ssetup pin

If you wannt to change thhe existing PIN code for Parenntal setup, youu can do so usi ng this menu.

You need to enter a neww PIN code twicce.

Protect seervices

You need to set this optiion at YES, if yyou want to loc k certain channnels with PIN ccode.

•

Parental conttrol type

This optioon will be activaated only if youu set Protect seervices at YES . Here there are two options:

- White lisst : This option is used to blocck all channels except those cchannels in thee parental conttrol list.

-Black lisst : This option is used to blocck only those chhannels includ ed in the parenntal control list. .

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•

Change serviice pin

Here you can define a PPIN code requirred to change sservices to be included in thee parental contrrol list.

NOTE: P IN code here is used for Chhange service and thus you are recommeended to use aa PIN code

different frrom that used ffor Protect servvices.

•

Edit service liist

Here you can add servicces that you wwant to lock wit h PIN code. Seervices will be arranged in thhe alphabetical order and

you can sselect an alphabet to enter intto the list wheree you can find the channel th at you want to lock.

Here, T iss selected and TV5 is locked in the list as ann example.

Next timee when you or aanyone else waant to tune intoo this service, tthe menu askinng for PIN codee will appear innstantly as

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below.

NOTE : It is very importaant not to lose this PIN code.

2--5. Factory Resset

[i: MENUU > Setup > Factory Reset]

If you wannt to erase all installed servicce list as well aas all configuraations, run the Factory Resetet process. Seleect YES in

the beloww menu to run the factory reseet.

Upon the completion of factory reset pprocess, your EET 9000 will rebboot automaticcally and start tthe First Time Installation

process.

NOTE : Iff you do this faactory reset, al l of your configguration data i ncluding bouquuets, service lissts, satellite paarameters,

and so onn will be erasedd.

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2--6. Checking HH/W & S/W Infoormation --6. Checking HH/W & S/W Infoormation

[i: MENUU > Informationn]

If you wannt to check thee H/W or S/W ssystem of your ET 9000, this is the menu that you need too use. Also, he re you can

check verry detailed info rmation of a sppecific service.

A. Servicee Information

[i: MENUU > Informationn > Service]

In this meenu, you can seee all the para meter data of tthe current chaannel. The servvice informationn is well arrangged in four

sections aas below:

1 Servicce info

2 PIDs

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3 Transpponder

4 Tuner Status

B. Systemm Information

[i: MENUU > Informationn > About]

This menuu is for you to ccheck the curreent system of yyour ET 9000. YYou can see thhe following infoormation:

1 S/W vversion

2 Detectted NIMs for booth Tuner A & BB

3 Detectted HDD

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Version 2, June 1991

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VI. Menu Structure

Main menu

1st level 2nd level 3rd level 4th level 5th level

Subtitles Subtitle selection

Window

Media player Media Player

Timer Timer List

VCR scart Switch to VCR scart

Information Service Service info

About About

Plugins Plugin browser

Setup

Service Searching Tuner Configuration Tuner A

Tuner B

Default Service lists

Automatic Scan

Manual Scan Service scan Window

Language Service scan Window

Customize Language Selection

Window

Timezone Customize Window

Harddisk

Timezone Window

Harddisk setup Harddisk setup

Initialization Initialization

Filesystem Check Filesystem Check

A/V Settings A/V Settings Window

Display Setup Display Setup

Window

Network Keyboard Setup

Window

Keyboard

Skin

Common Interface

Parental control Parental control

setup

Default control

Factory reset

Standby/Restart

Sleep Timer

Standby

Restart

Deep Standby

VII. Troubleshooting

Before you contact your local service center, please read the following tips carefully.

NOTE : if the antenna is covered with snow or the RF signal is weakened by heavy rain, the quality of audio and video

may become temporarily poor. If you experience poor audio and video quality due to bad weather conditions, please

check if your satellite antenna is oriented in the original direction. And see if it is covered by snow. Also, check if your

LNB is not damaged.

1. No video on TV

• Check first if the product is powered on and in operation mode.

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• Check if the video cable is properly connected between TV and ET 9000.

• Check if the satellite cable is properly connected to ET 9000.

• Check if the selected channel is currently on air.

• Check if the selected channel is encrypted and if you have a corresponding access smartcard.

2. Problem with audio quality

• Check if your audio cable is connected correctly.

• Check the volume level of your TV and the product.

• Check if the product or TV is on mute.

• Check the audio option if it is correctly selected for the program that you are currently watching.

3. Remote control problem

• Check if the batteries are correctly mounted.

• If your remote control has been used for long, change the batteries.

• Point the remote control directly toward the product.

• Make sure that nothing blocks the front panel display.

4. Channel search problem

• Make sure if tuner configurations are all correctly made.

• Check if the antenna cable(s) are properly connected.

5. Encrypted channel viewing problem

• Check if you have the appropriate Smartcard and/or CAM.

• Take the Smartcard and CAM out and re-insert them to re-initialize.

• Check if your system correctly detects the smartcard and CAM.

6. Recording problem

• Check if the HDD has a sufficient space for recording.

• Check if there is a conflict between recording timer.

7. Noise

• ET 9000 has an integrated FAN. This may create a noise but is inevitable to make sure the safety of the product.

• Also, when HDD is running, you may hear a noise.

VIII. Universal Remote Control

The universal remote control allows you to operate the most important functions such as power on/off

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and volume control on your television, audio-video receiver, or DVD player. To be able to control the device, you must adapt the remote control to the device first.

I.

Setup method

1.

Initial Settings

1.1 Device Default: STB

1.2 Remote Control Default Setting Code

1) STB: 001

2) TV: 001

3) DVD: 001

4) AUX: 001

2.

Settings method

2.1 3-DIGIT Setup Method

1) Turn on the device that you want to setup (for example turn on TV)

2) Press and hold [DEVICE] + [OK] button more than 2 seconds until the device

LED blinks.

If there is no key input for 20secnds, the Remote Control will exit the setting mode and return to normal mode.

3) Enter the 3-Digit setup code from the Brand list. (The LED will blink by Key input)

When the 3-Digit setup code is input, the designated Power Code will be output. (LED blinks)

Verify whether it operated properly by pressing the [Power] button.(If the device does not operate

properly, press next 3-Digit setup code)

In case the 3-Digit setup code is not valid, the LED will off for 1.5seconds and revert to on status for input mode.

It does not answer against key input other than [OK], [0~9], [CH+], [CH-], [Power] key.

4)

Press [OK] button to save and exit the setup model. (LED will blink 2 times and

off)

2.2 Auto Search (CH+, CH-) Setup method

1) Turn on the device that you want to setup (for example turn on TV)

2) Press and hold [DEVICE] + [OK] button more than 2 seconds until the device

LED blinks.

If there is no key input for 20secnds, the Remote Control will exit the setting mode and return to

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normal mode.

3) Press [CH+] or [CH-] button. By pressing the button, the power code of next

setting number will be output. (LED blinks)

It does not answer against key input other than [OK], [0~9], [CH+], [CH-], [Power] key.

4) Press [OK] button to save and exit the setup model. (LED will blink 2 times and

off)

3.

Setup Code Read Out (Number Call)

1)

Press and hold [DEVICE] + [OK] button more than 2 seconds until the device

LED blinks.

If there is no key input for 20secnds, the Remote Control will exit the setting mode and return to normal mode.

2)

Press [INFO] i button. LED will blink the number of times as setup code.

0: LED blinks quickly 10 times.

1~9: LED blinks the number of digit.

4.

Factory Reset

1)

Press and hold [TV] + [0] button simultaneously for more than 5 seconds.

2)

LED will blink in the following order of STB -> TV->DVD->AUX 3 times and turn

off.

II. TV Brand/Code list

. … .. … …. .

VIIII. Glossary

8PSK 8-PSK is usually the highest order PSK constellation
deployed. With more than
8 phases, the error-rate becomes too high and there are
better, though more complex, modulations available such
as quadrature amplitude modulation (QAM).
Although any number of phases may be used, the fact
that the constellation must usually deal with binary data
means that the number of symbols is usually a power of 2
— this allows an equal number of bits-per-symbol.
CAM Conditional Access Module is an electronic device, usually
incorporating a slot for a smart card, which equips an
Integrated Digital Television or set-top box with the
appropriate hardware facility to view conditional access
content that has been encrypted using a conditional
access system. They are normally used with direct
broadcast satellite (DBS) services.
Composite Video Composite video is the format of an analog television

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(picture only) signal before
it is combined with a sound signal and modulated onto an
RF carrier. Composite
video is often designated by the CVBS acronym, meaning
"Color, Video, Blank and Sync". In German (with PAL
being a German invention by Telefunken's Walter
Bruch) the abbreviation FBAS (Farbe-Bild-Austastung-
Synchron) means the same.
It is usually in standard formats such as NTSC, PAL, and
SECAM. It is a composite of three source signals called
Y, U and V (together referred to as YUV) with sync
pulses. Y represents the brightness or luminance of the
picture and includes synchronizing pulses, so that by itself
it could be displayed as a monochrome picture. U and V
represent hue and saturation or chrominance; between
them they carry the color information. They are first
modulated on two orthogonal phases of a color carrier
signal to form a signal called the chrominance. Y and UV
are then combined. Since Y is a baseband signal and UV
has been mixed with a carrier, this addition is equivalent to
frequency-division multiplexing.
Conditional Access System Several companies provide competing Conditional Access
Systems; Irdeto Access, Nagravision, Conax, Viaccess,
Verimatrix and NDS are among the most commonly used
CAS systems.
DiSEqC Stands for Digital Satellite Equipment Control. It is a
special communication protocol for use between a satellite
receiver and a device such as a multi-dish switch or a

small dish antenna rotor. DiSEqC was developed by European satellite provider Eutelsat, which now acts as the standards agency for the protocol.

Dolby Digital Dolby Digital is the common version containing up to six discrete channels of sound. The most elaborate mode in common usage involves five channels for normal-range speakers (20 Hz - 20,000 Hz) (right front, center, left front, right rear and left rear) and one channel (20 Hz - 120 Hz allotted audio) for the subwoofer driven low-frequency effects. Mono and stereo modes are also supported. AC-3 supports audio sample-rates up to 48 kHz.

* Dolby Digital
* DD (an abbreviation for Dolby Digital, often combined with channel count; for instance, DD 2.0, DD 5.1)
* AC-3 (Audio Codec 3, Advanced Codec 3, Acoustic Coder 3.

EPG Electronic Program Guide is a digital guide to scheduled broadcast television or radio programs, typically displayed on-screen with functions allowing a viewer to navigate, select, and discover content by time, title, channel, genre, etc. by use of their remote control, a keyboard, or other input devices such as a phone keypad.

Content can also be scheduled for future recording by a personal video recorder (PVR). The on-screen information may be delivered by a dedicated channel or assembled by the receiving equipment from information sent by each program channel.

eSATA A variant of SATA meant for external connectivity with the

following characteristics: * Minimum transmit potential: Range is 500-600 mV. * Minimum receive potential: Range is 240-600 mV. * Identical protocol and logical signaling (link/transport-layer and above), allowing native SATA devices to be deployed in external enclosures with minimal modification.

FEC Stands for Forward Error Correction. This is a system of error control for data transmission, whereby the sender adds redundant data to its messages, also known as an

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error-correction code. This allows the receiver to detect and correct errors (within some bound) without the need to ask the sender for additional data. The advantages of forward error correction are that a back-channel is not required and retransmission of data can often be avoided (at the cost of higher bandwidth requirements, on average).

HDMI Stands for High-Definition Multimedia Interface. It is a compact audio/video interface for transmitting uncompressed digital data. HDMI connects digital audio/ video sources—such as set-top boxes, Blu-ray Disc players, personal computers (PCs), video game consoles (such as the PlayStation 3 and some models of Xbox 360), and AV receivers—to compatible digital audio devices, computer monitors, and digital televisions. As an uncompressed connection, HDMI is independent of the various digital television standards used by individual devices, such as ATSC and DVB, as these are encapsulations of compressed MPEG video streams (which can be decoded and output as an uncompressed video stream on HDMI).

LNB Stands for Low-Noise Block converter. This is the (receiving, or downlink) antenna of what is commonly called the parabolic satellite dish commonly used for satellite TV reception. The LNB is usually fixed on or in the satellite dish. The purpose of the LNB is to take a wide block (or band) of relatively high frequencies, amplify and convert them to similar signals carried at a much

lower frequency (called intermediate frequency or IF). These lower frequencies travel through cables with much less attenuation of the signal, so there is much more signal left on the satellite receiver end of the cable. It is also much easier and cheaper to design electronic circuits to operate at these lower frequencies, rather than the very high frequencies of satellite transmission.

PID Stands for Packet Identifier. This is a set of numbers identifying stream packets contained within a single data stream

Polarization The orientation of the electrical and magnetic fields of a signal. Satellites use mainly vertical and horizontal polarization.

S/PDIF Stands for Sony/Philips Digital Interconnect Format. A common use for the S/PDIF interface is to carry compressed digital audio as defined by the standard IEC 61937. This mode is used to connect the output of a DVD player to a home theater receiver that supports Dolby Digital or DTS surround sound. Another common use is to carry uncompressed digital audio from a CD player to a receiver. This specification also allows for the coupling of personal computer digital sound (if equipped) via optical or coax to Dolby or DTS capable receivers.

SCART A French-originated standard and associated 21-pin connector for connecting audio-visual (AV) equipment together. SCART is one of the most common method of connecting audio-visual equipment together. However, transferring analogue standard-definition content, SCART

is becoming obsolete with the introduction of new digital standards such as HDMI, which can also carry highdefinition content and multichannel audio.

Smartcard A pocket-sized card with embedded Integrated Circuits which can process data. It can receive input which is processed and delivered as an output. The card may embed a hologram to avoid counterfeiting. It is used for accessing encrypted TV channels or services.

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Teletext A television information retrieval service developed in the United Kingdom in the early 1970s. It offers a range of text-based information, typically including national, international and sporting news, weather and TV schedules. Subtitle (or closed captioning) information is also transmitted in the teletext signal, typically on page 888 or 777.

YPbPr A color space used in video electronics, in particular in reference to component video cables. YPbPr is the analog version of the YCBCR color space; the two are numerically equivalent, but YPBPR is designed for use in analog systems whereas YCBCR is intended for digital video. YPbPr is commonly called "component video", but this is a misnomer, as there are many other types of component video (mostly RGB with sync either on green or one or two separate signals).

YPbPr is converted from the RGB video signal, which is split into three components, Y, PB, and PR.

* Y carries luma (brightness) and sync information.
* PB carries the difference between blue and luma (B - Y).
* PR carries the difference between red and luma (R - Y).

Sending a green signal would be redundant, as it can be derived using the blue, red and luma information.

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